

New York State Department of Transportation

Yellow Flag NB2358W007

By: Alex Abreu

Flag Date: April 27, 2023

Superseding Information:

No Flags Superseded

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: May 01, 2023 9:28:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Alex Abreu, P.E. 099761-1

Date: May 08, 2023

Reviewed By: Robert Kemp

Date: May 08, 2023

Attachments: 6

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 24			
	107 - Steel Open Girder/Beam	903	ft

Flagged Condition Description

This Yellow Flag No. NB2358W007 is NEW.

Location: Span 24, Girder G17 at Pier 23 above the dirt area behind the fence along the 65th Street EB roadway between 4th and 5th Avenue.

Description:

The end of Girder G17 in Span 24 at Pier 23 exhibits 5/8" long vertical crack presently visible in the right face only (not full depth penetration of the web) starting at the top cope of the girder web (Photos #4 and #5). The remaining girder end exhibits no significant defects at the web and flanges (Photo #6). (refer to the Yellow Flag Condition Sketch Photo #2 for more details)

This is newly flagged condition.

Notes:

1. Adjacent Girder G16 exhibits approx. 36% section loss for the full web height area for 2" wide along the connection angle with 1/8" section loss noted on both faces. The web along the bottom flange exhibits a 3"H x 3'L area with 1/8" to 3/16" pitting and section loss. The right side of the girder web exhibits a 2" wide x full web height area with 1/8"D section loss (18%) along the connection angle. Additionally, the bottom of the web exhibits a 3"H x 12"L area with 3/16"D section loss next to the connection angle.
2. Adjacent Stringer S2 exhibits up to 25% section loss with corrosion for the full web height for 4" wide along the connection angle and in the lower web along the bottom flange for 6'L x 3"H. Bottom flange exhibits 25% section loss over an area of 7'L x full width.
3. A single lane closure in the right lane on EB roadway and 60ft bucket truck are required to access this location.
4. Dye Penetrant test was performed to establish the limits of the crack.
5. The previous 2021 Biennial Report did not have any defects at the above flagged girder location.

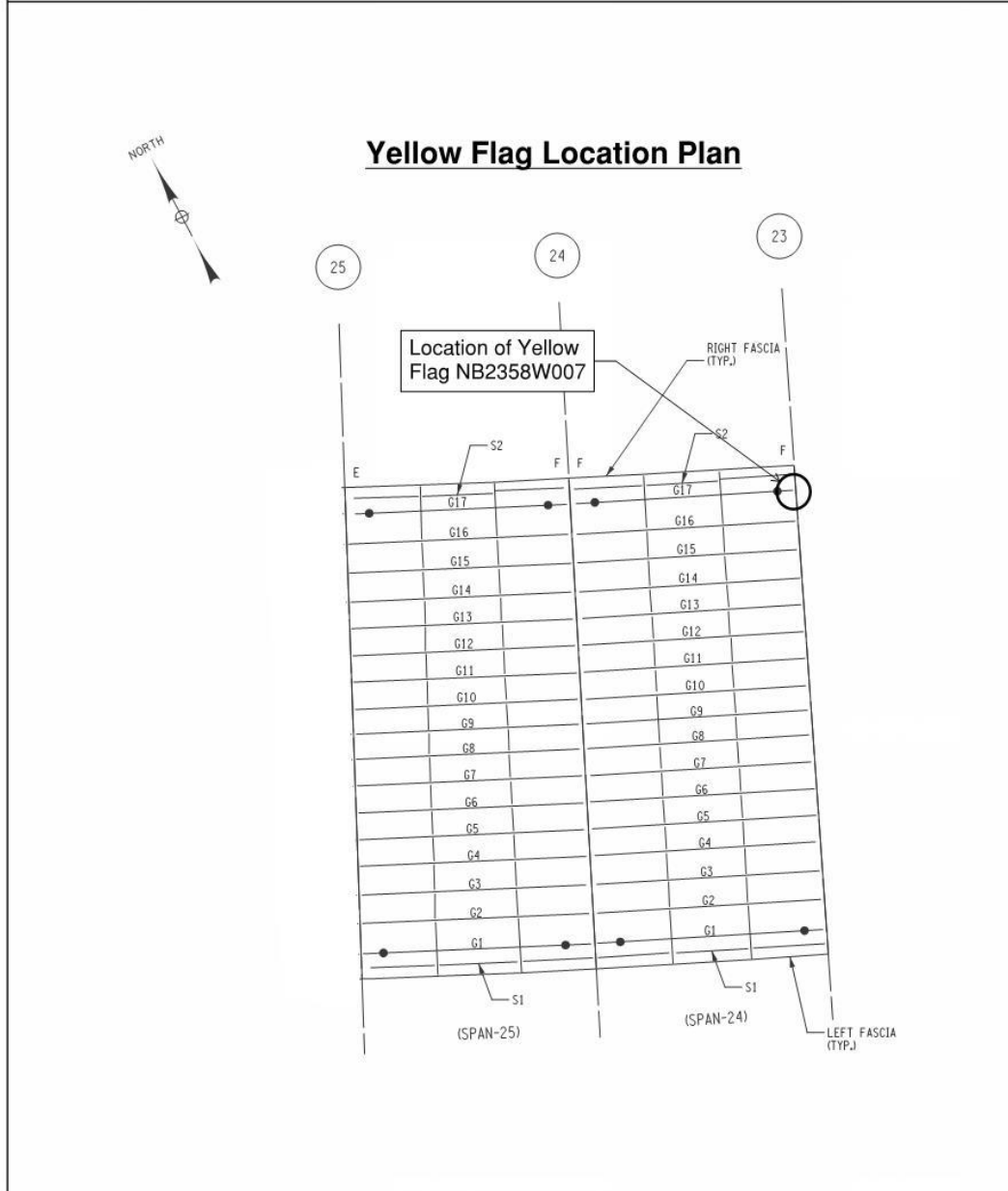
Flag PhotographsPhoto Number: **1**Photo Filename: **23_Flag Location Plan.jpg**Gowanus Expressway
2023 Biennial Inspection - Field SketchBIN: 1065318Team: AA/TSDate: 04/27/2023Span: 24Location: Girder G17 at Pier 23**wsp****Attachment Description: Flag Location Plan**

Photo Number: 2

Photo Filename: 23_Span 24_Pier 23_Girder G17_Connection Detail.

Gowanus Expressway
2022 Biennial Inspection - Field Sketch

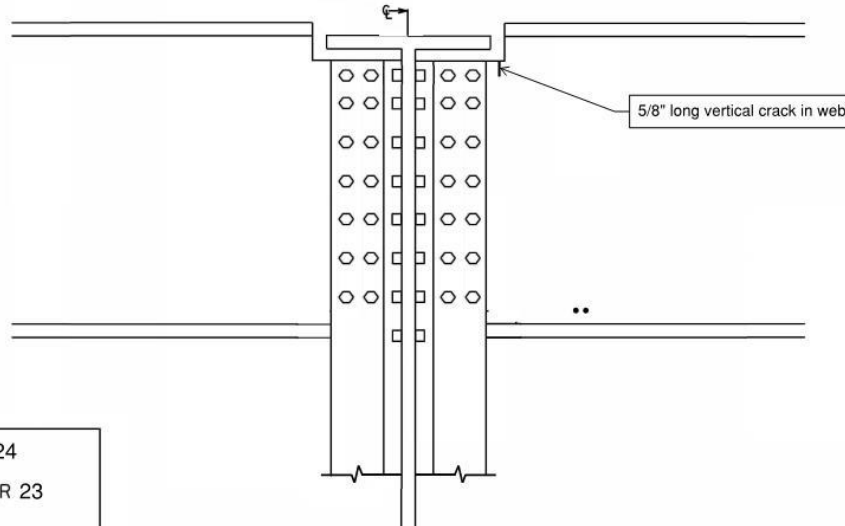
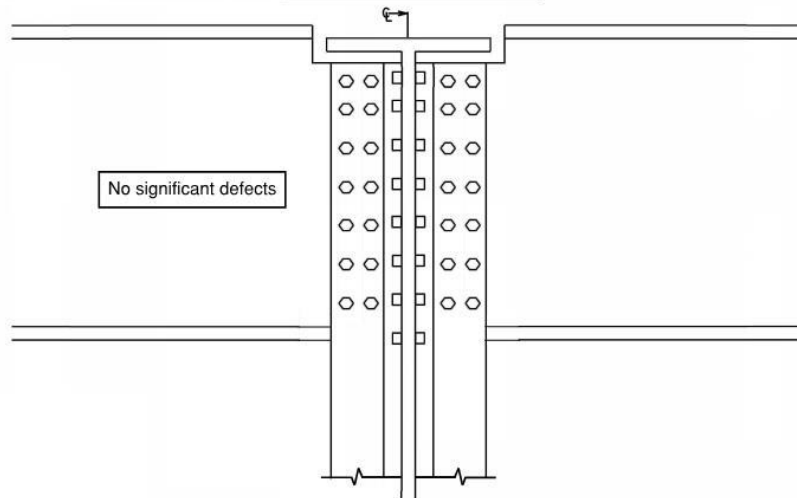
BIN: 1065318

Team: AA/TS

Date: 4/27/2023

Span: 24

Location: Girder G17 at Pier 23

Right Face of Girder G17**Left Face of Girder G17**

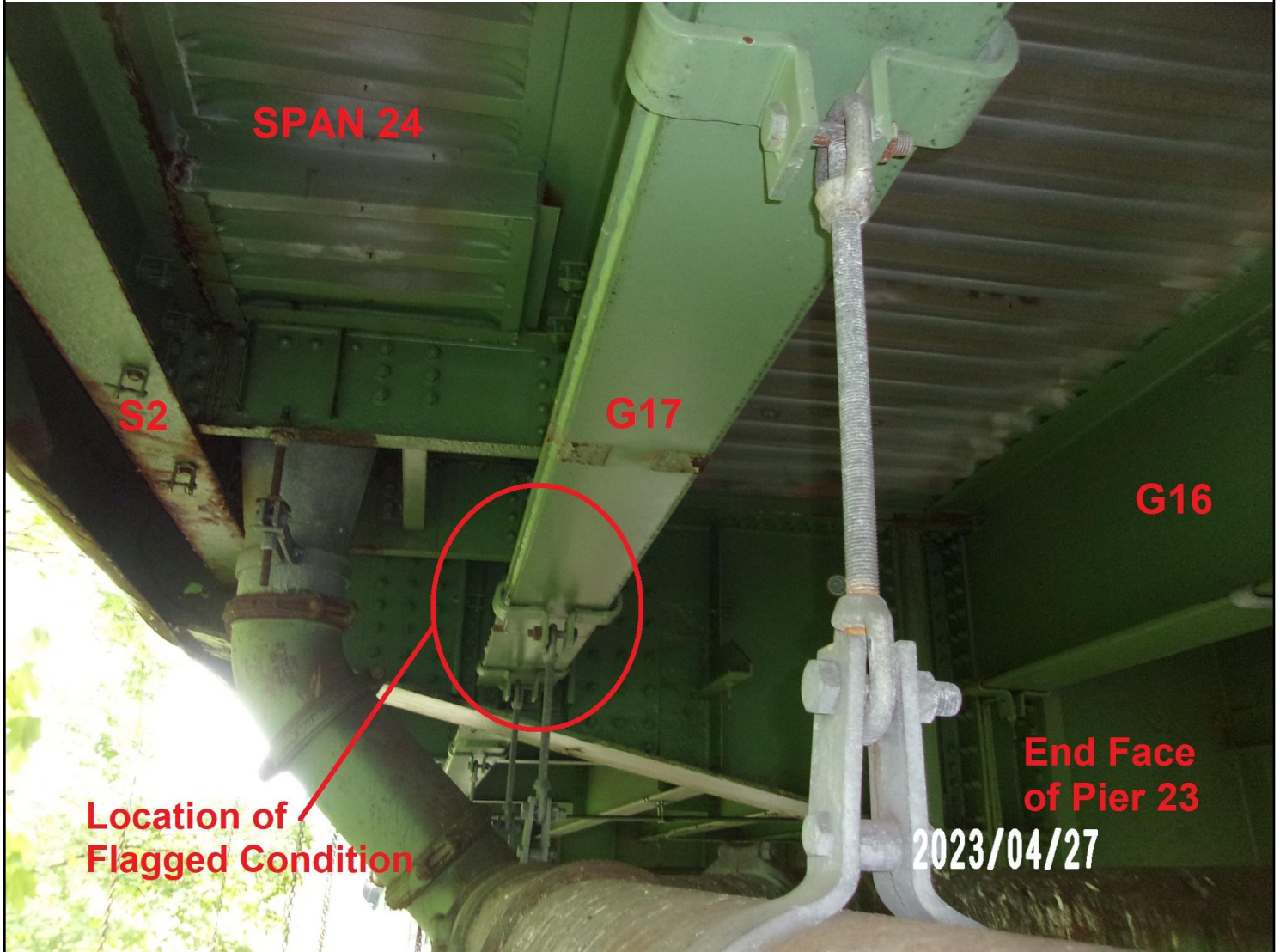
SCALE: N.T.S.

wsp

Attachment Description: Flag Condition Sketch

Photo Number: 3

Photo Filename: 23_113_6694.JPG



Attachment Description: General view of the flagged condition at Girder G17 in Span 24 at Pier 23. Looking Begin.

Photo Number: 4

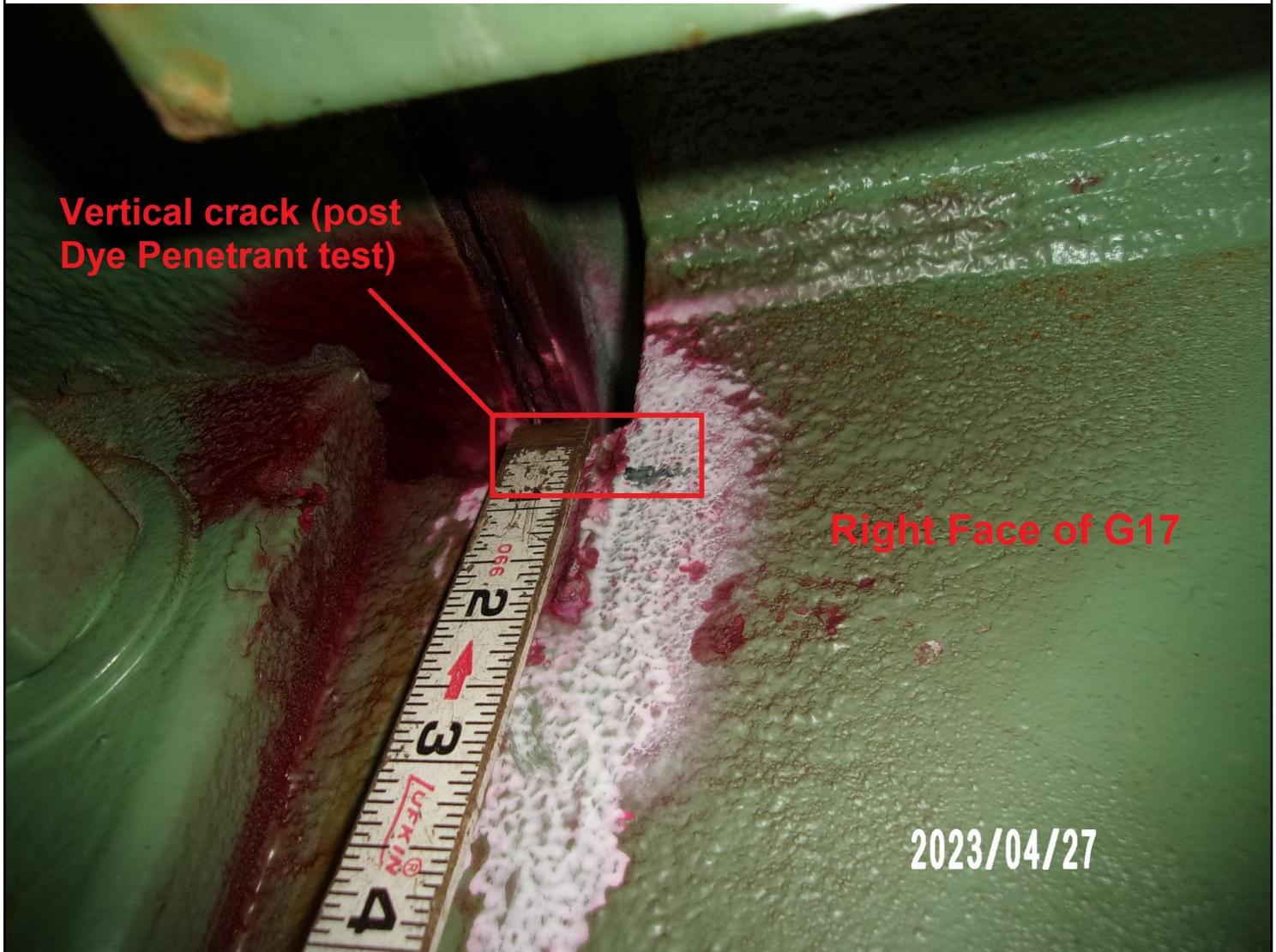
Photo Filename: 23_113_6684.jpg



Attachment Description: The right face of Girder G17 in Span 24 at Pier 23. The girder end exhibits 5/8" long vertical crack presently visible in the right face only (not full depth penetration of the web) starting at the top cope of the girder web prior to the Dye Penetrant test (circled). Looking Left.

Photo Number: 5

Photo Filename: 23_113_6689.jpg



Attachment Description: The right face of Girder G17 in Span 24 at Pier 23. The girder end exhibits 5/8" long vertical crack presently visible in the right face only (not full depth penetration of the web) starting at the top cope of the girder web post Dye Penetrant test (circled). Looking Left.

Photo Number: 6

Photo Filename: 23_113_6695.JPG



Attachment Description: The left face of Girder G17 in Span 24 at Pier 23. The upper web of the girder at the top cope exhibits no significant defects. Looking Right.